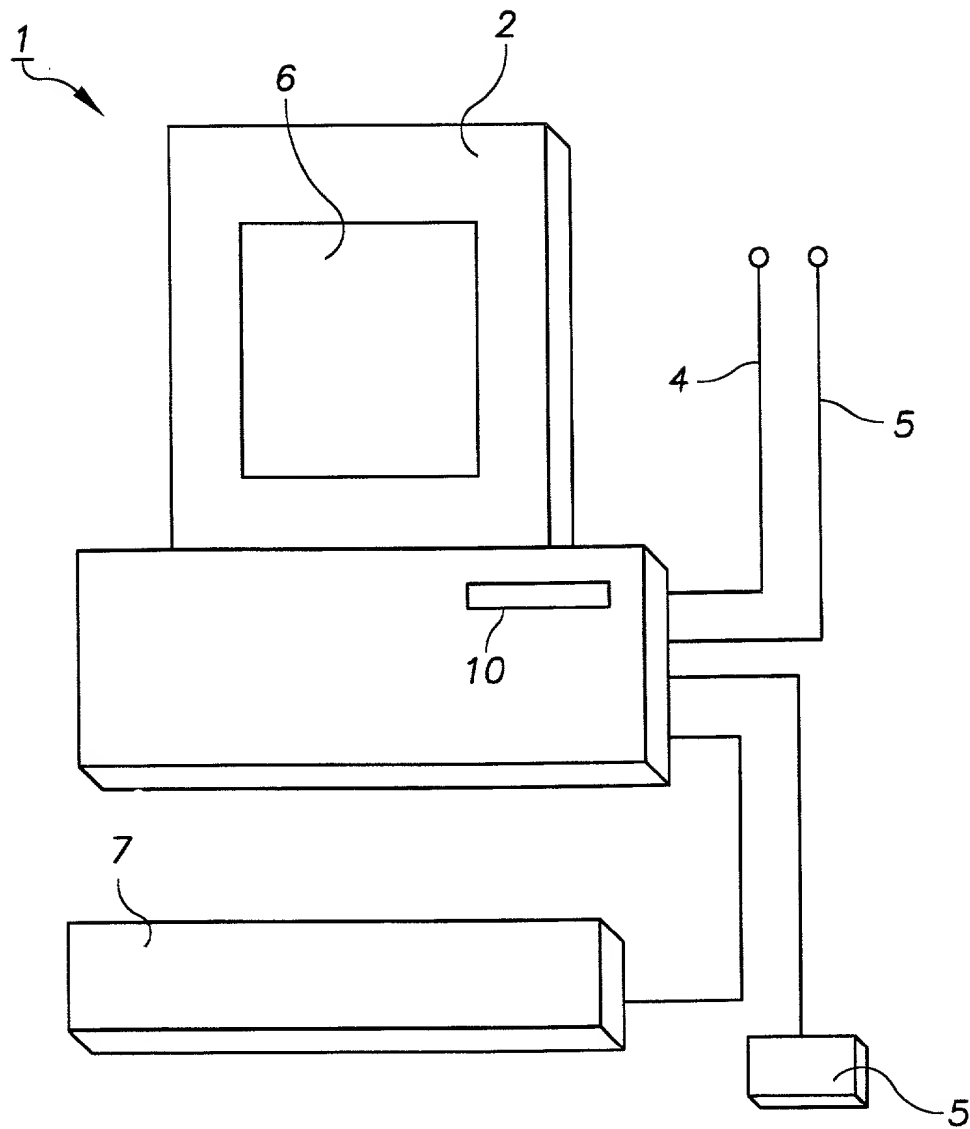


FIG. 1



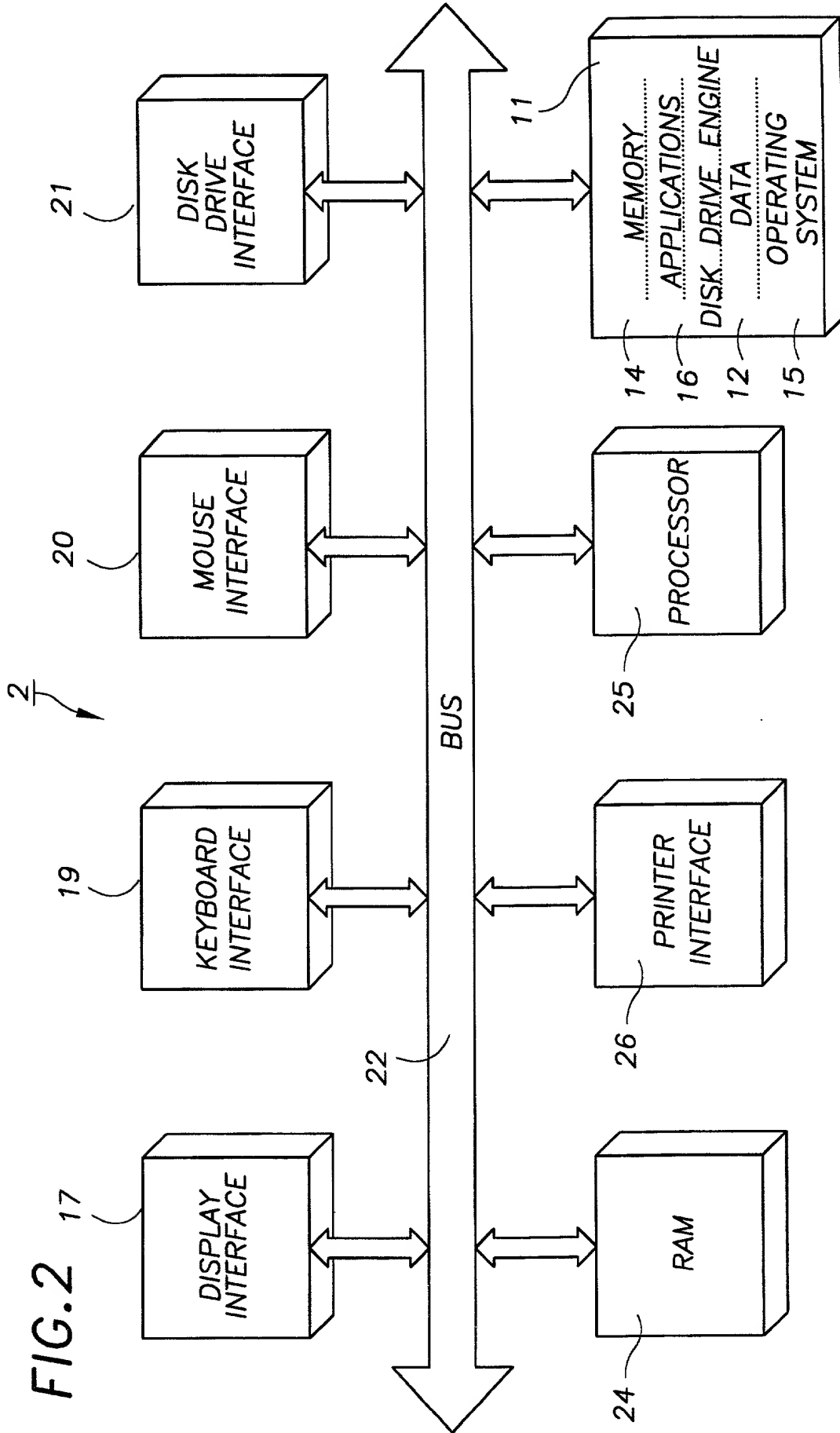
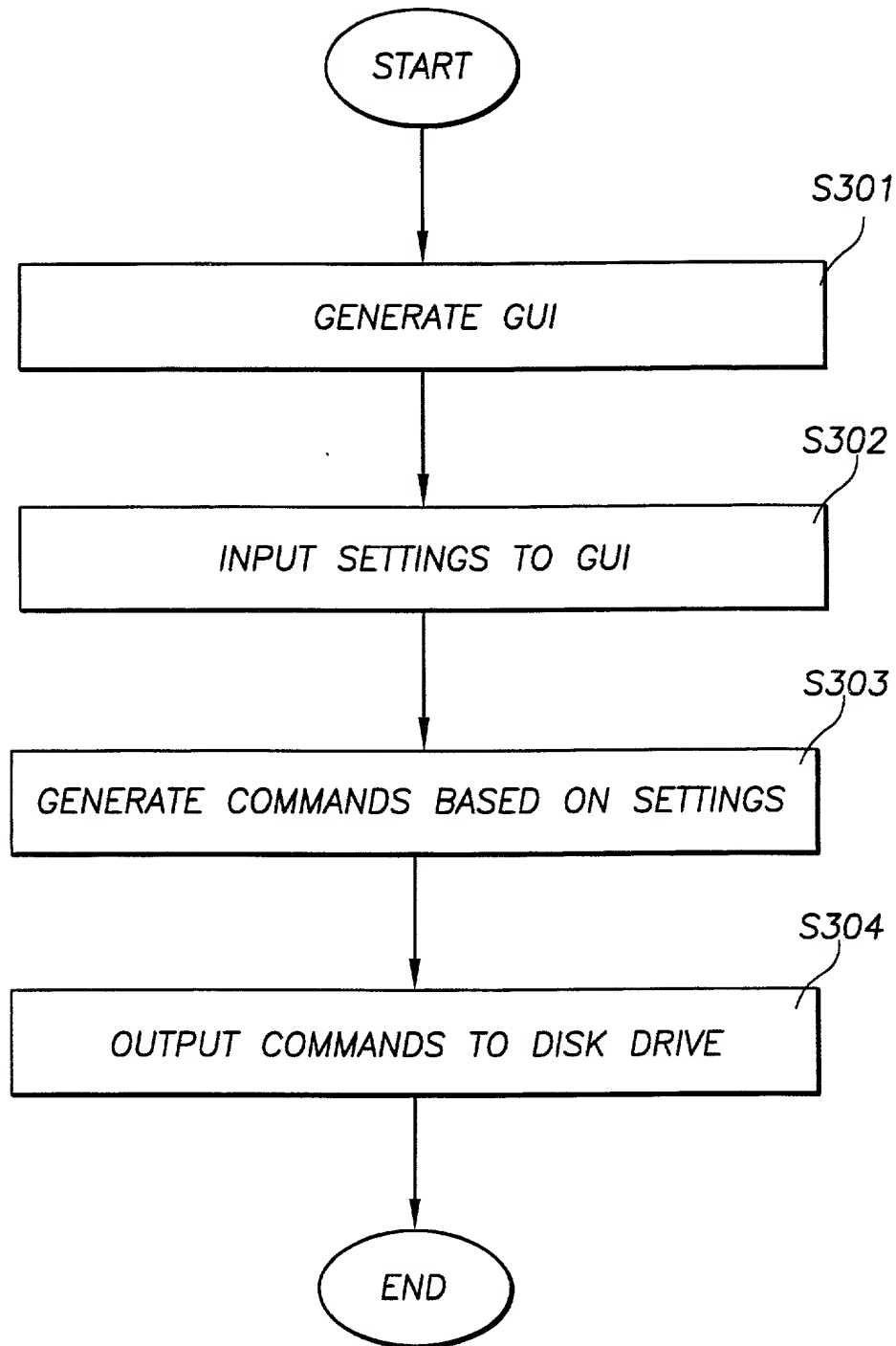


FIG. 3



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FIG. 4

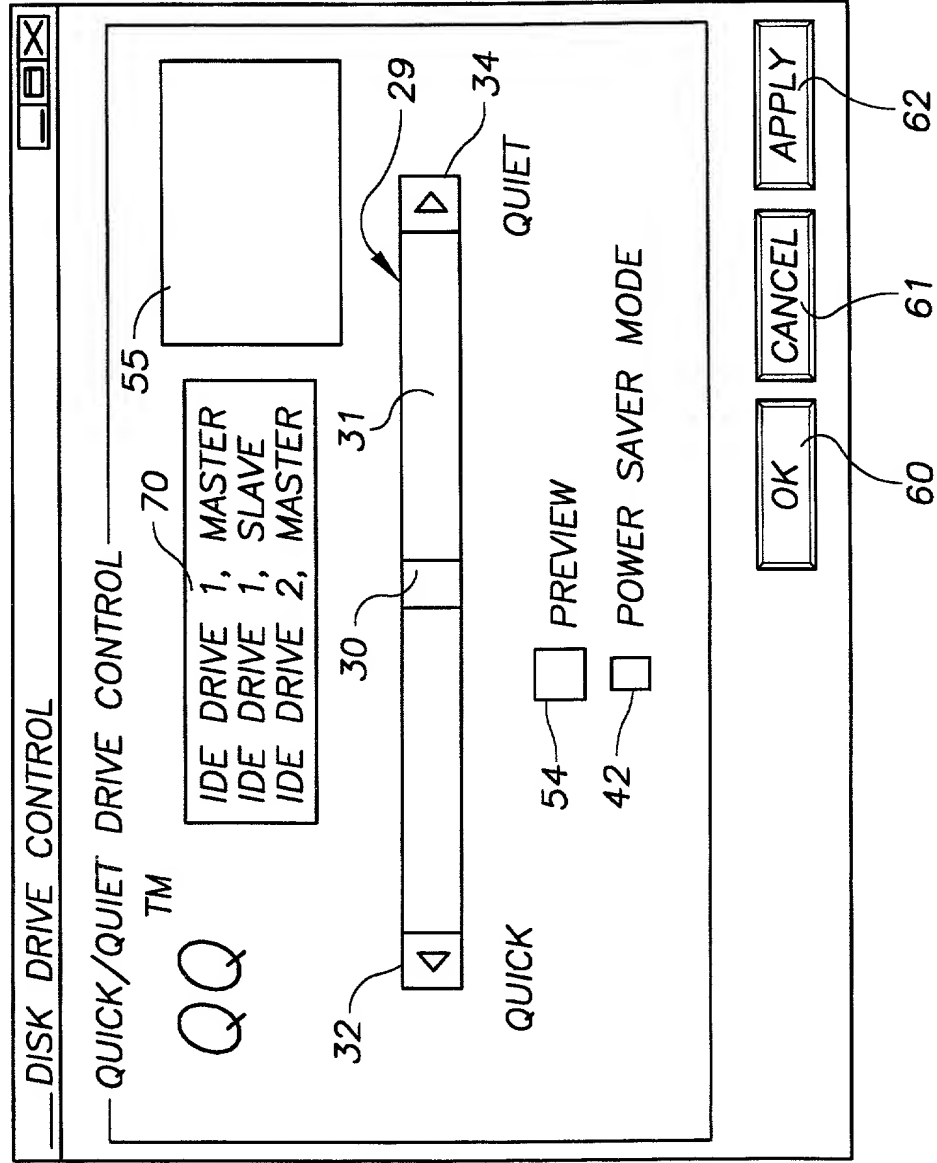


FIG. 5

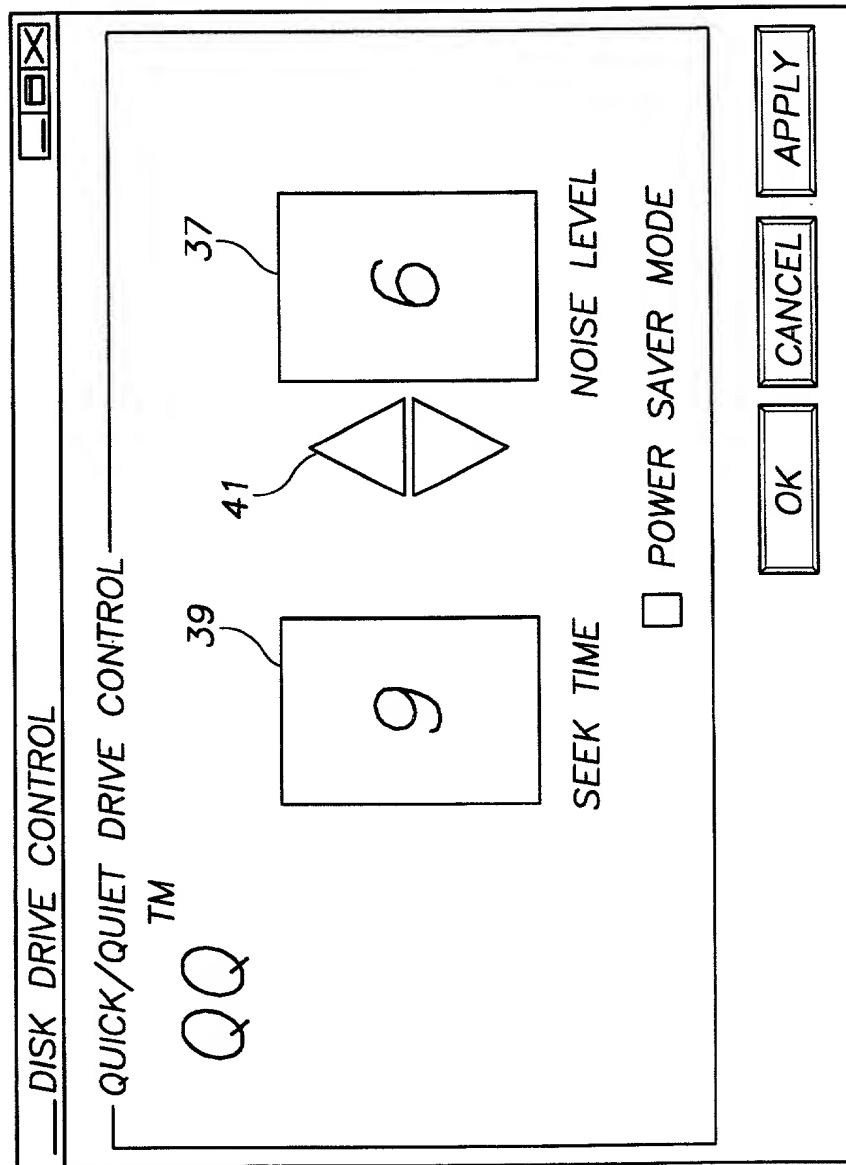


FIG. 6

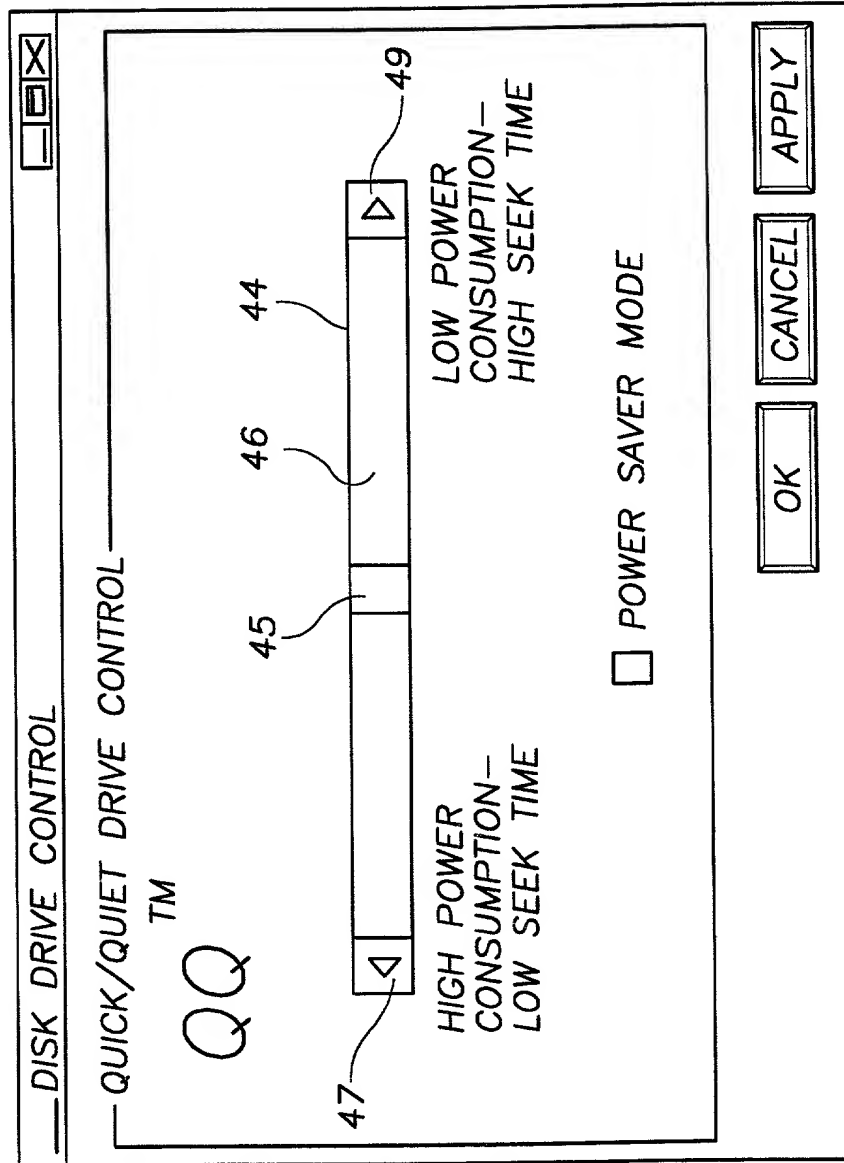


FIG. 7

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— DISK DRIVE CONTROL —

— QUICK/QUIET DRIVE CONTROL —

QQ<sup>TM</sup>

52

50

NOISE LEVEL

POWER CONSUMPTION

☐ POWER SAVER MODE

OK CANCEL APPLY

FIG.8

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DISK DRIVE CONTROL

QUICK/QUIET DRIVE CONTROL™

9

SEEK TIME

6

NOISE LEVEL

2

POWER CONSUMPTION

☐ POWER SAVER MODE

OK

CANCEL

APPLY



FIG. 9

IDE DRIVE 1, MASTER  
IDE DRIVE 1, SLAVE  
IDE DRIVE 2, MASTER

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FIG. 10A

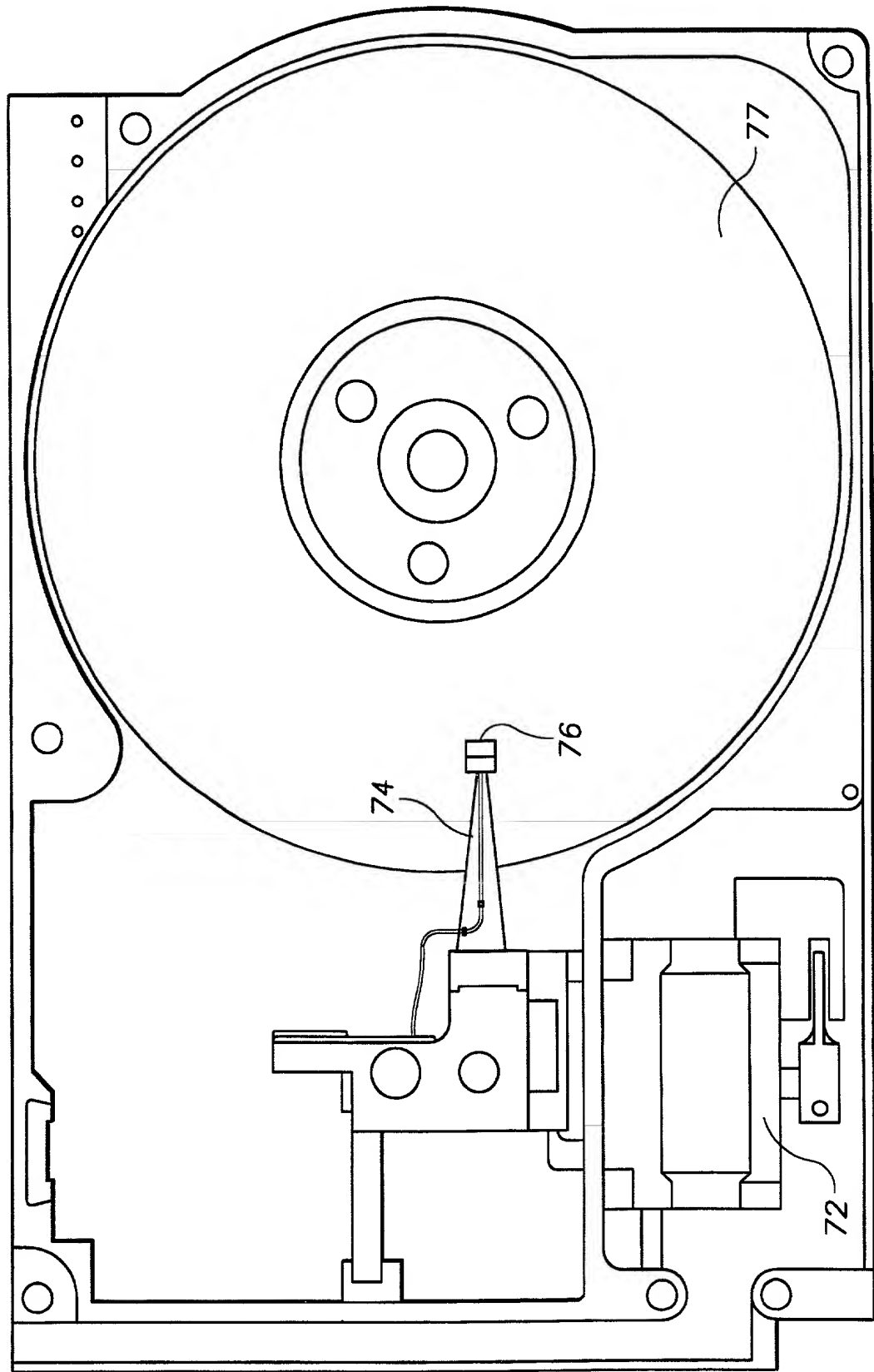
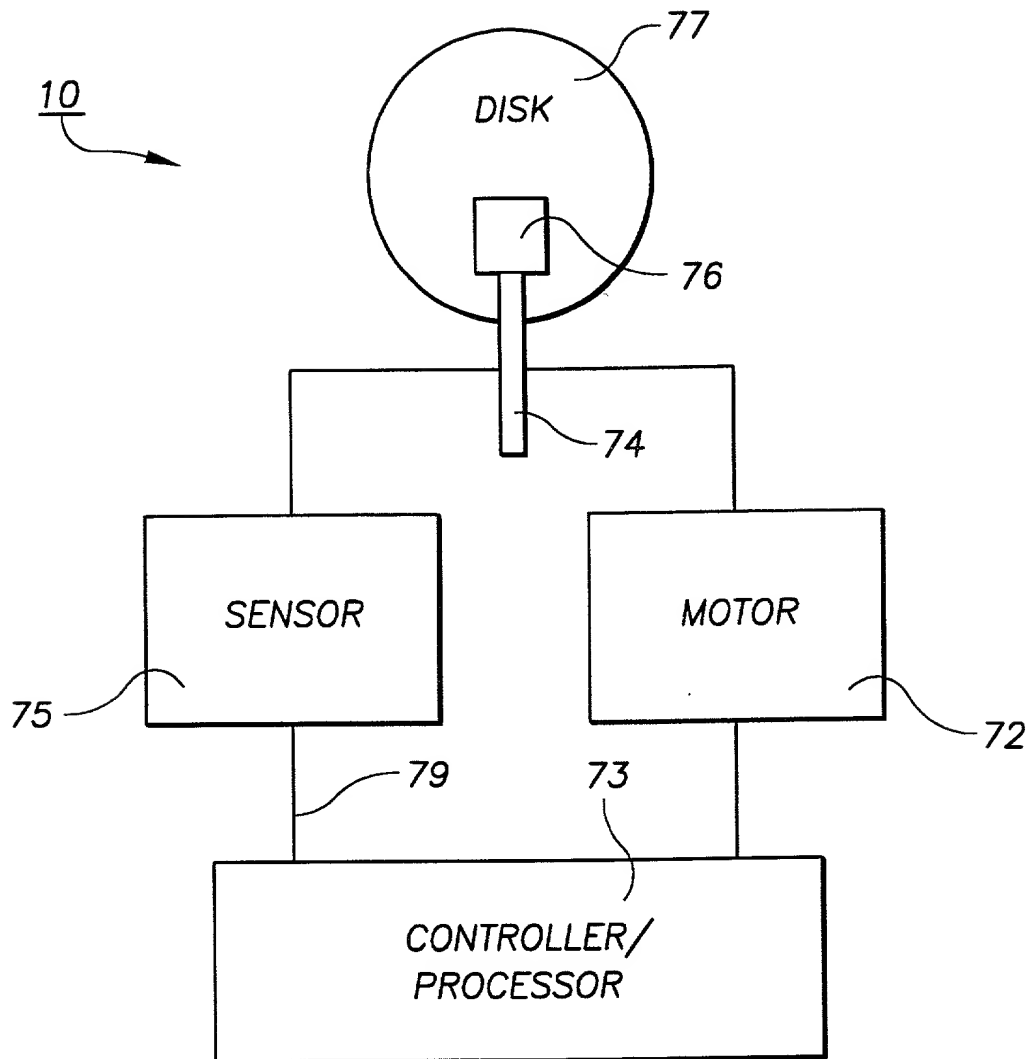


FIG. 10B

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equation (1) and (2) are substituted into (3) and (4) and the resulting equations are solved for the output  $y$  and the control signal  $u$ .

FIG. 11

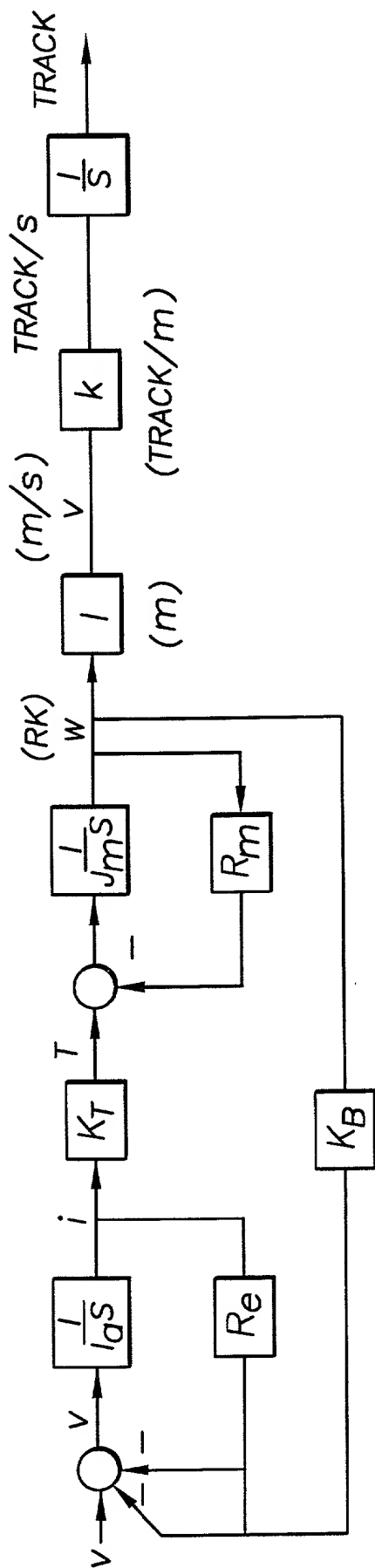


FIG.12

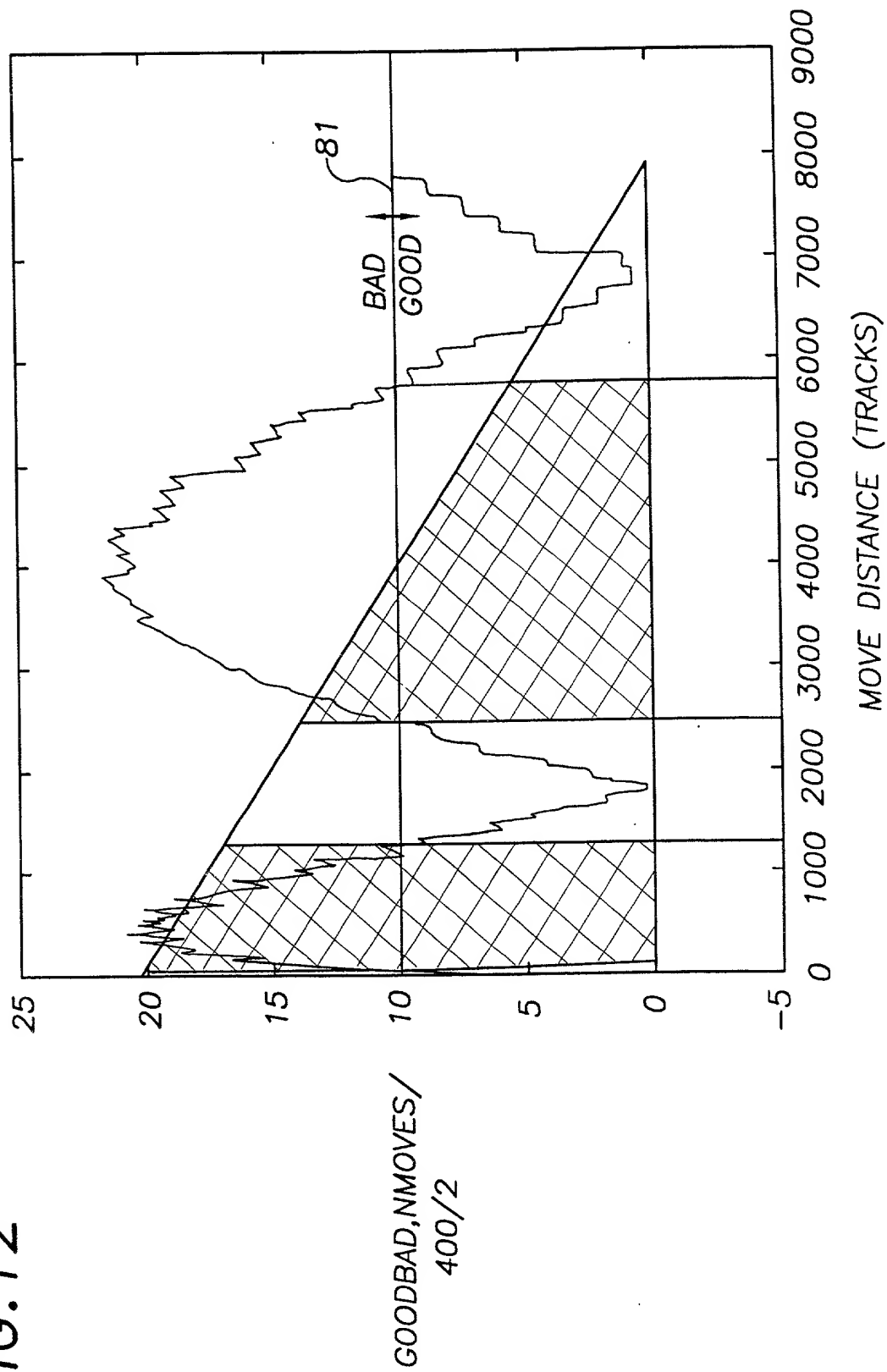


FIG. 13

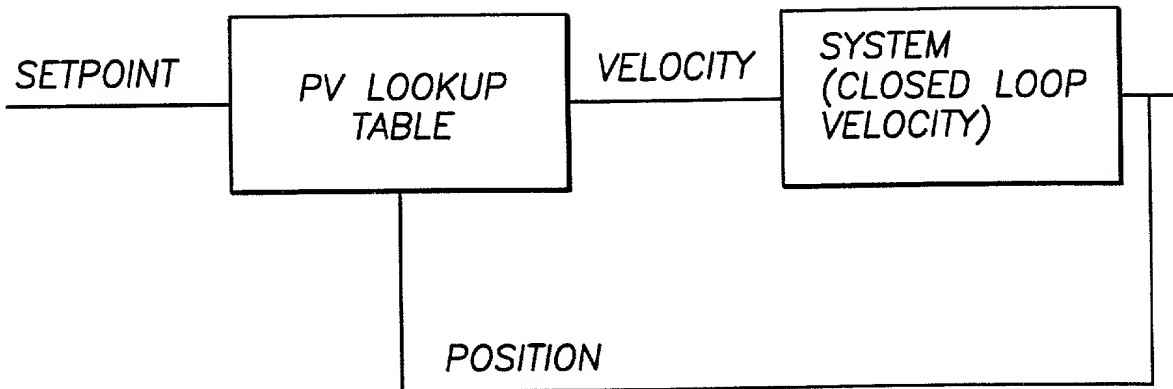
PRIOR ART

FIG. 14

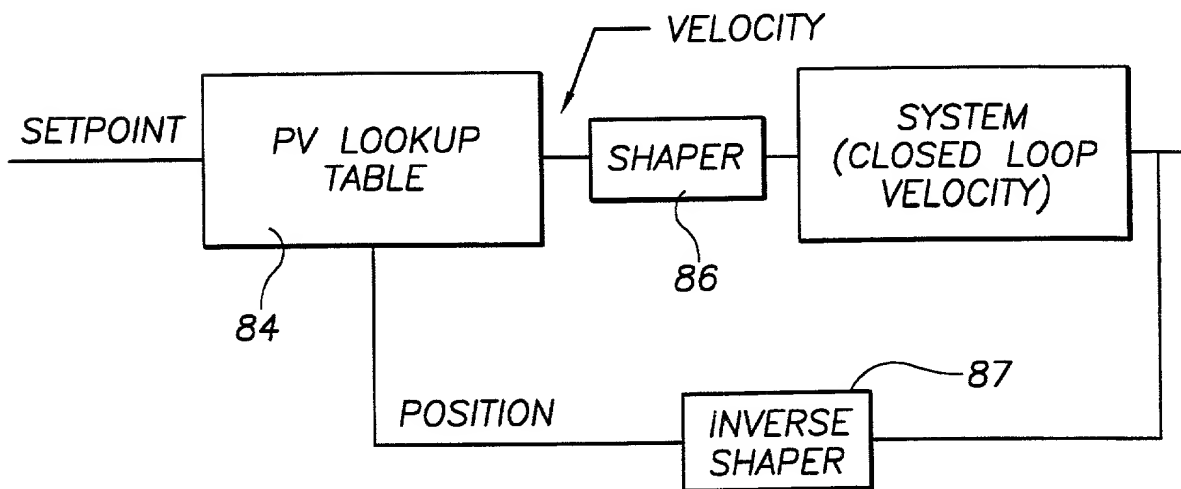


FIG. 15

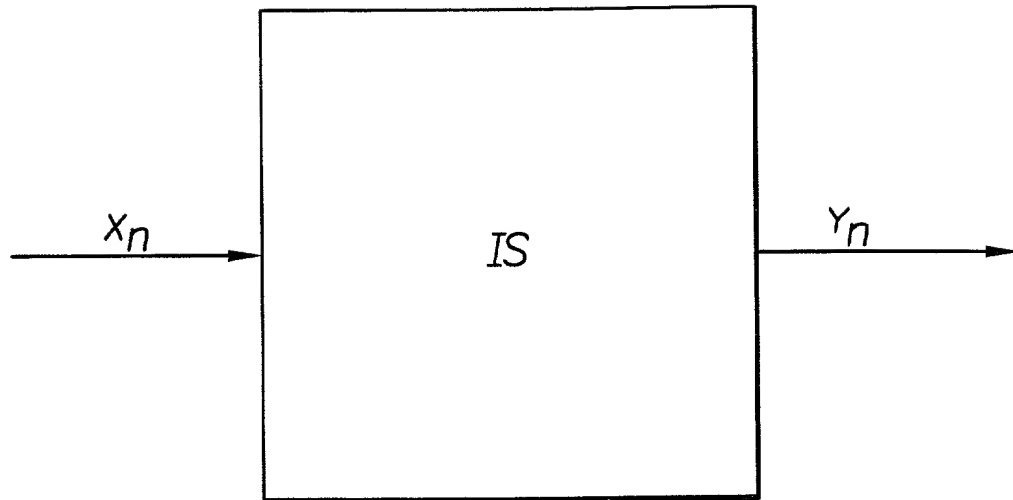


FIG. 16

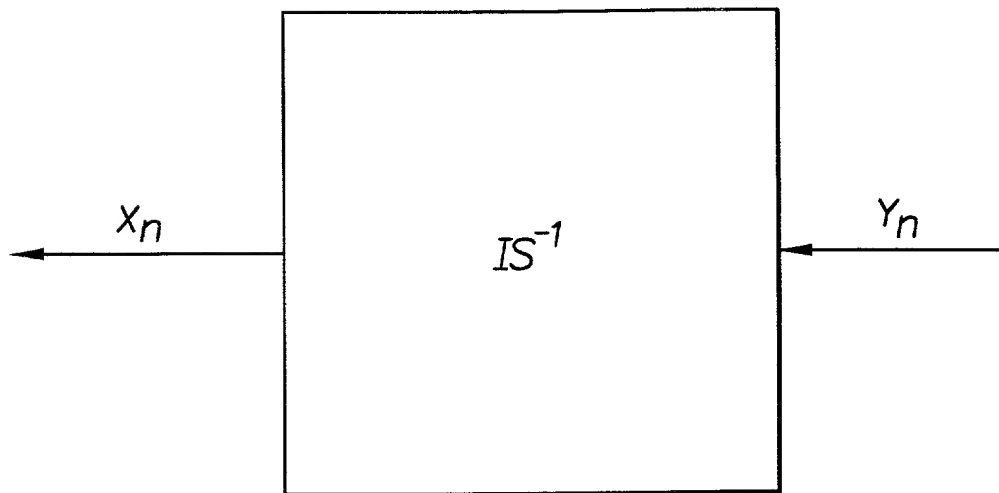


FIG.17

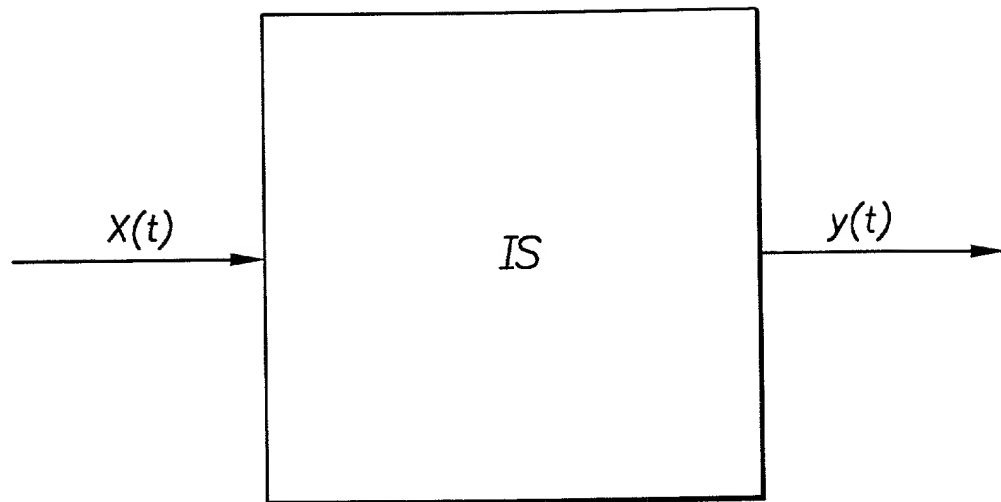


FIG18

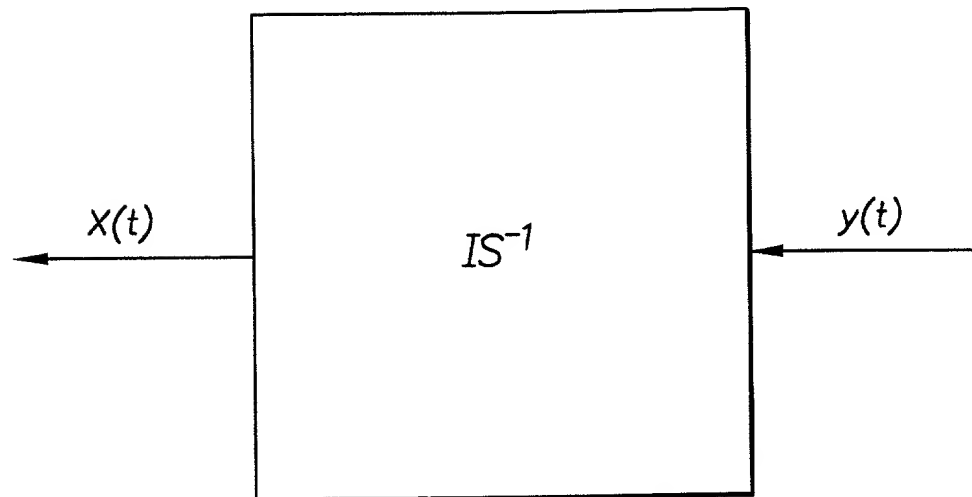




FIG.19

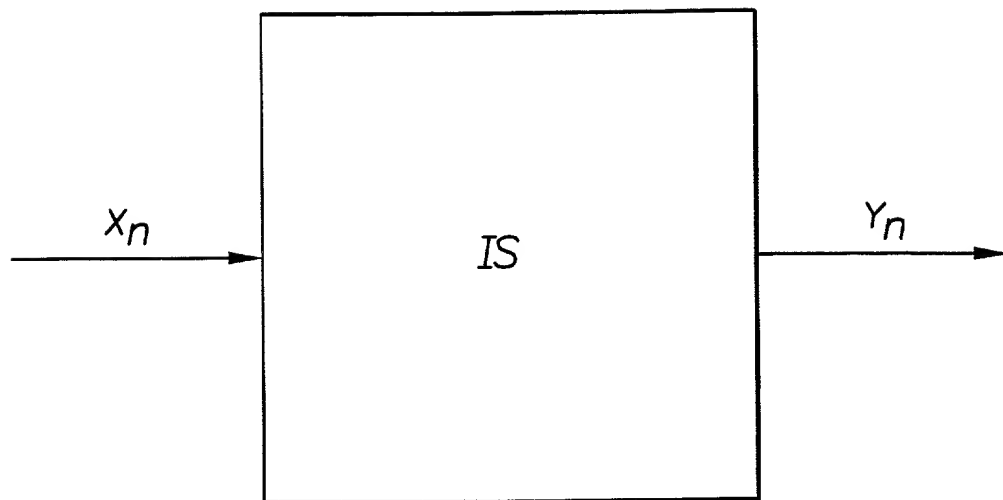
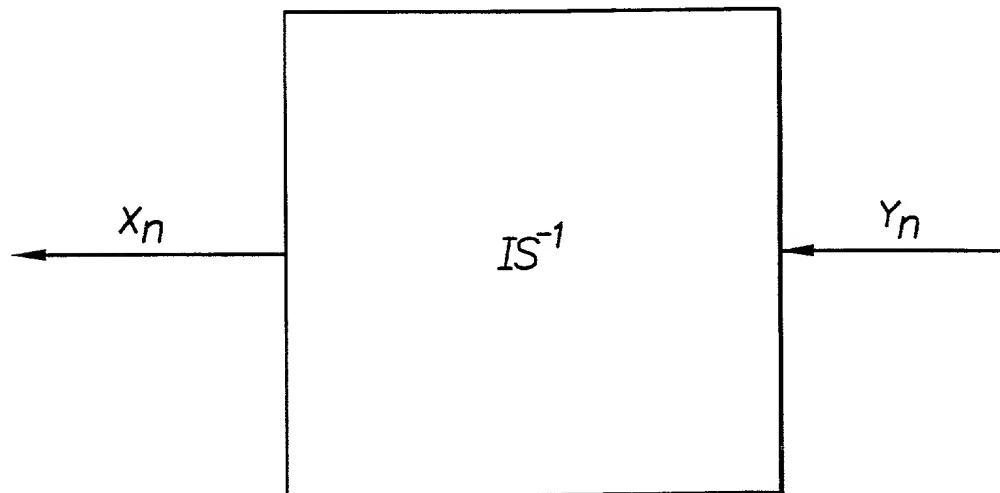
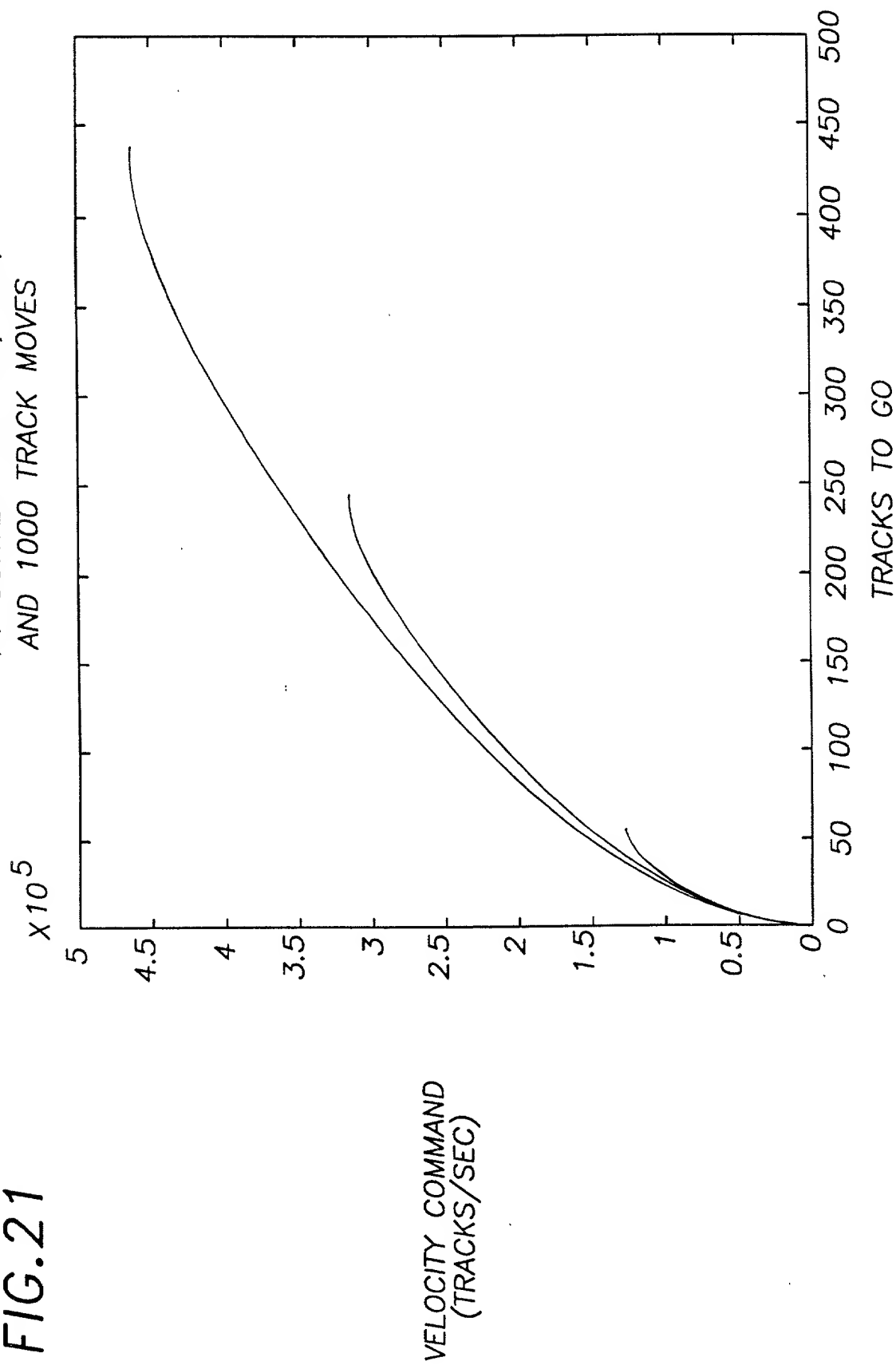
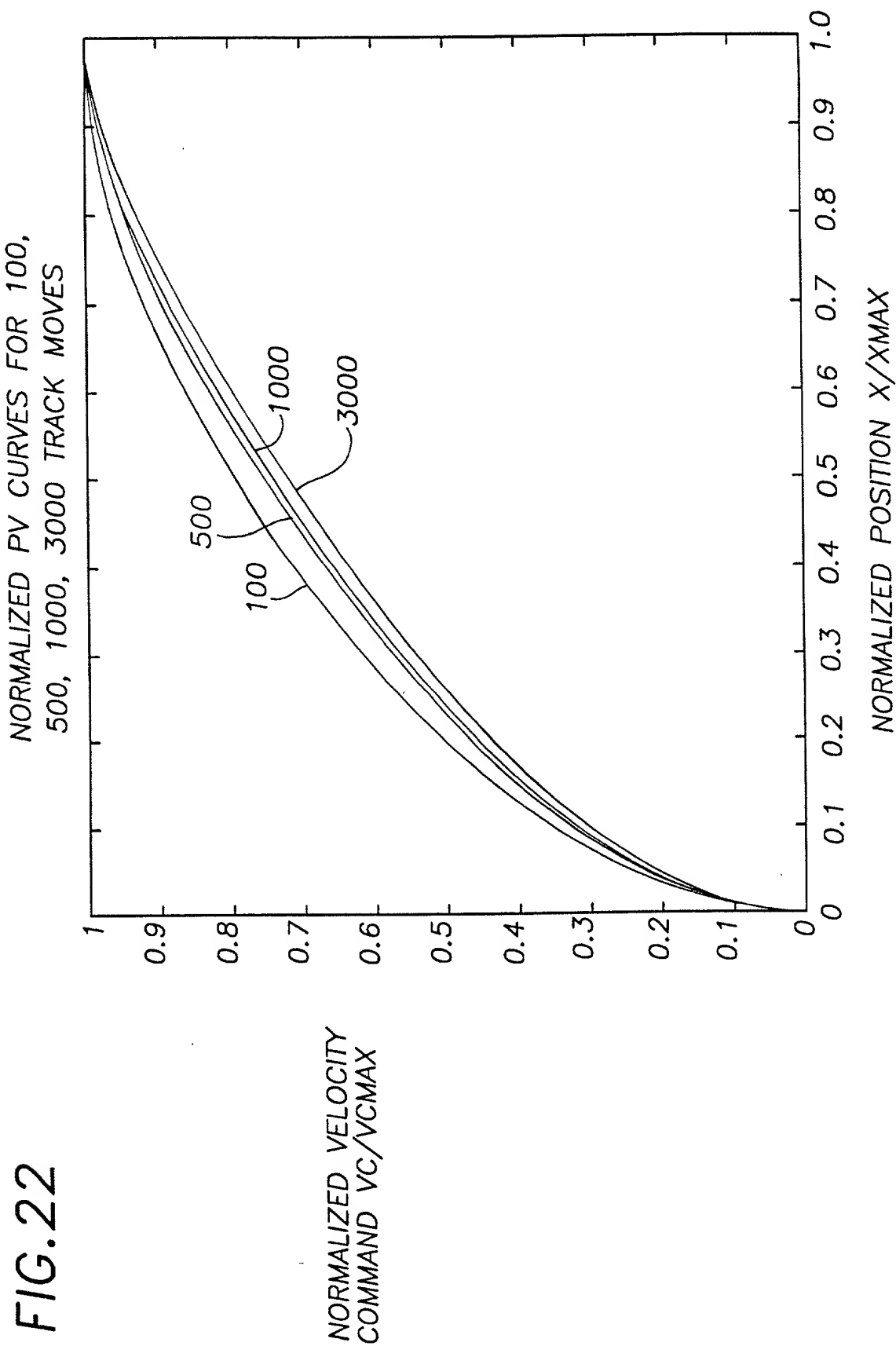
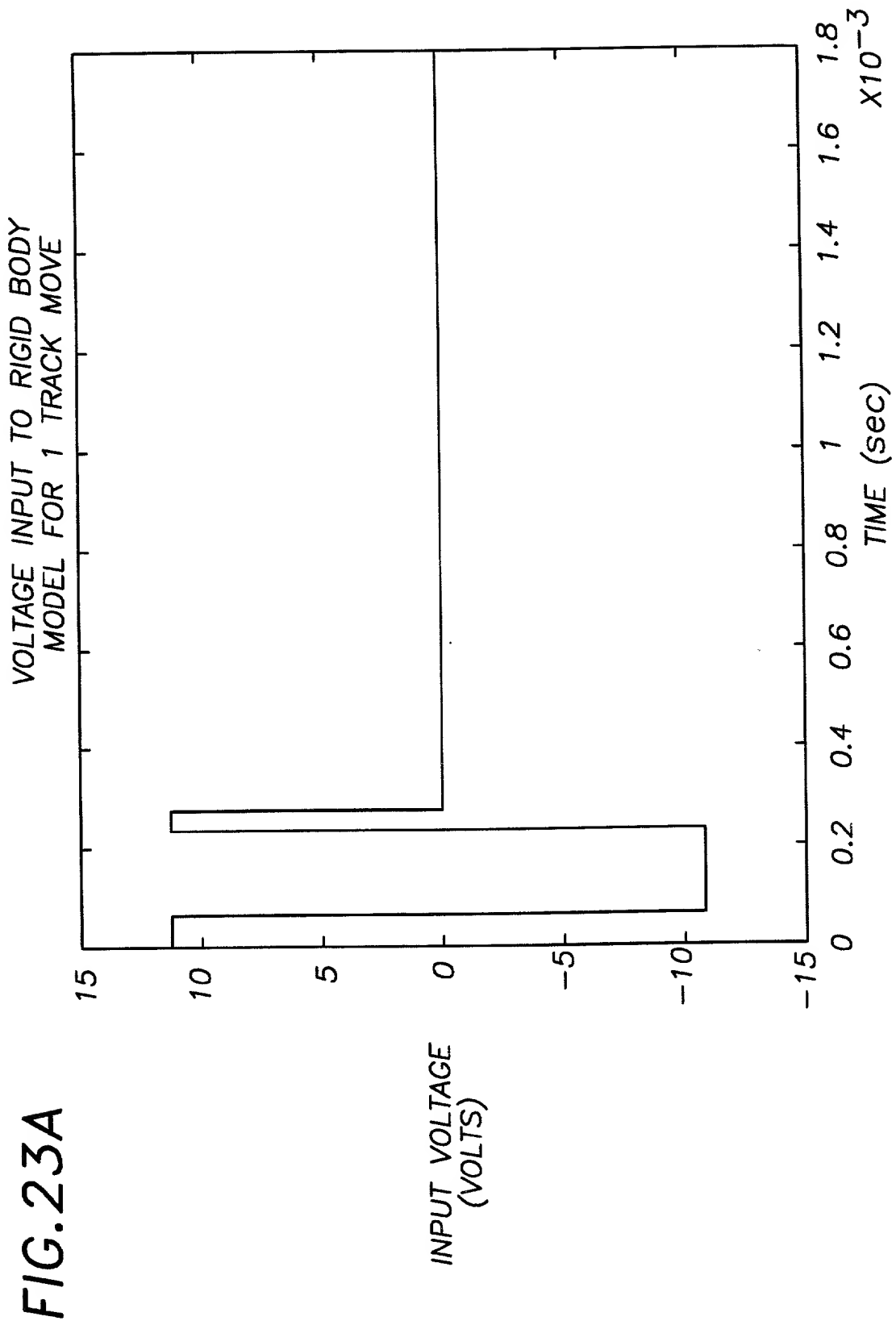


FIG20



PV CURVES FOR 100, 500,  
AND 1000 TRACK MOVES





VOLTAGE INPUT TO RIGID BODY  
MODEL FOR 3000 TRACK MOVE

FIG. 23B

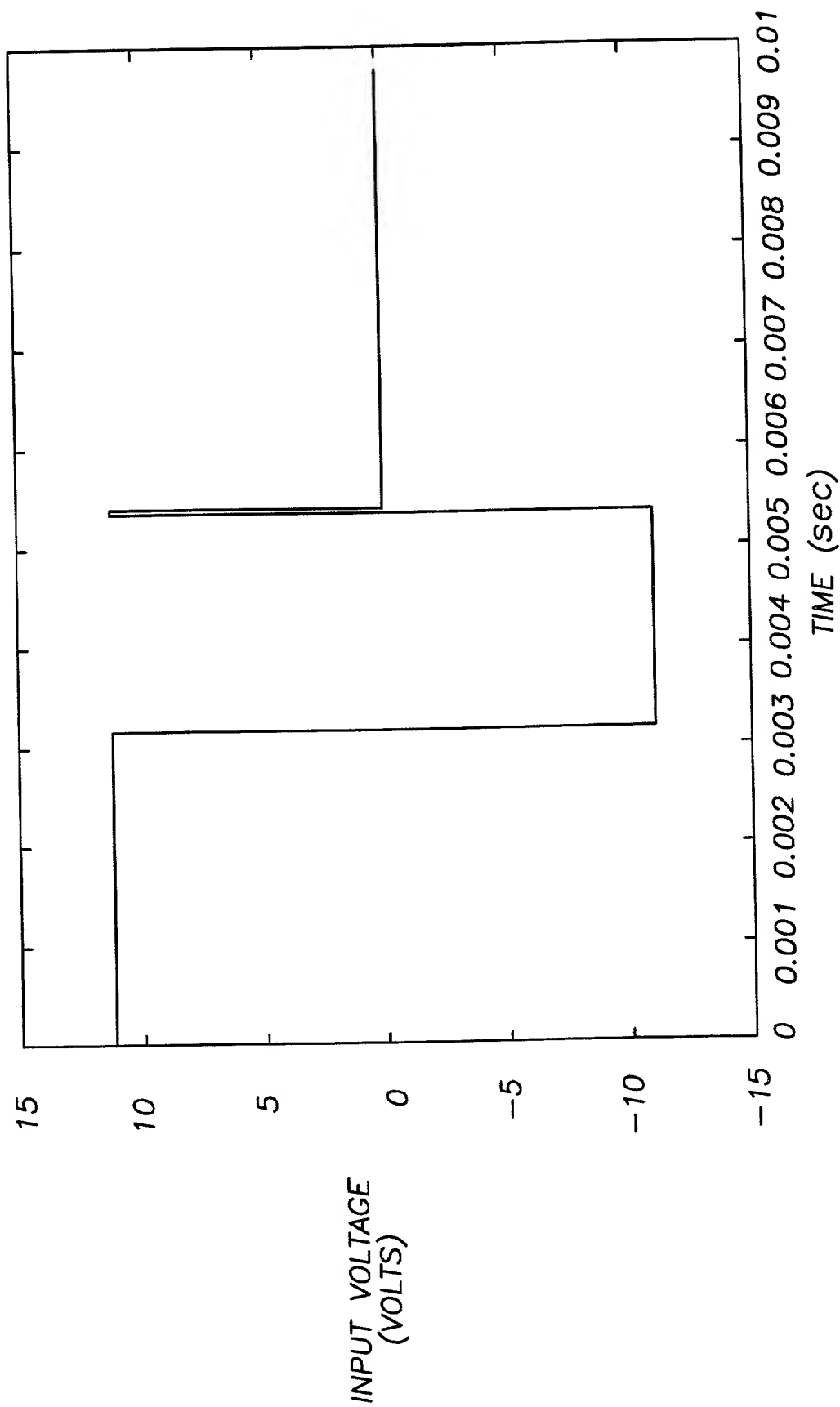


FIG.24

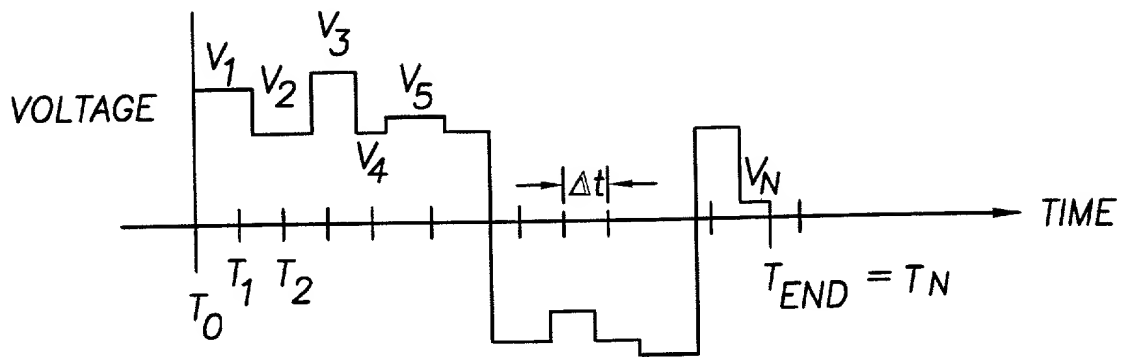


FIG.25

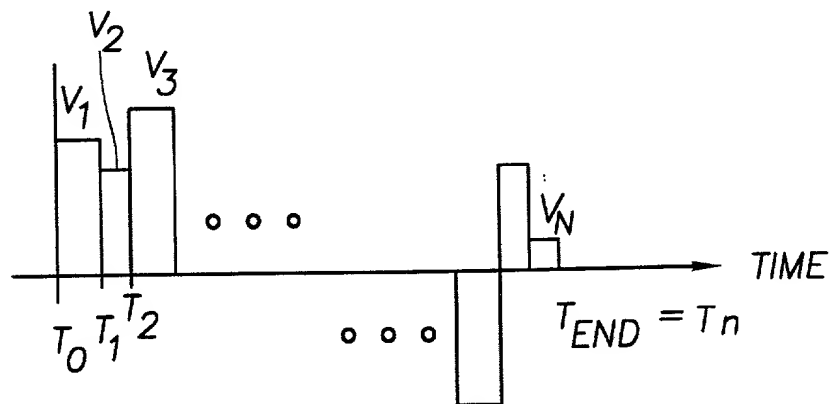


FIG.26

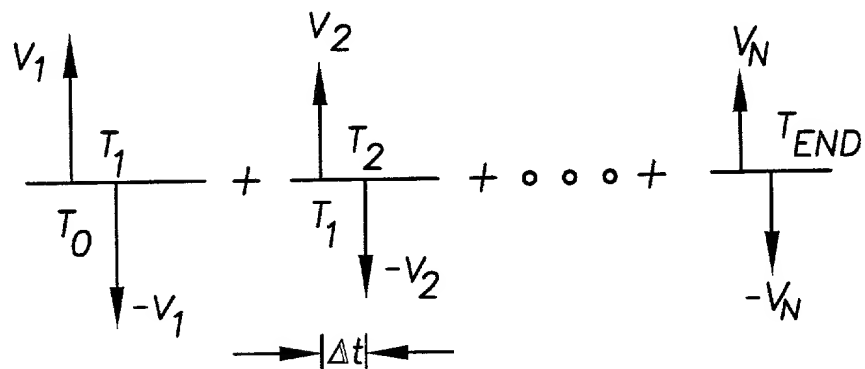


FIG.27

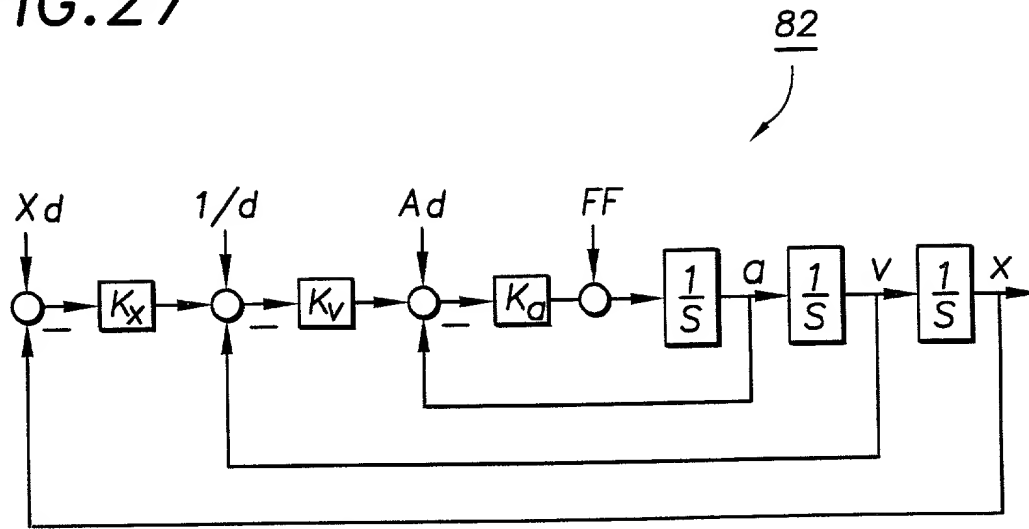
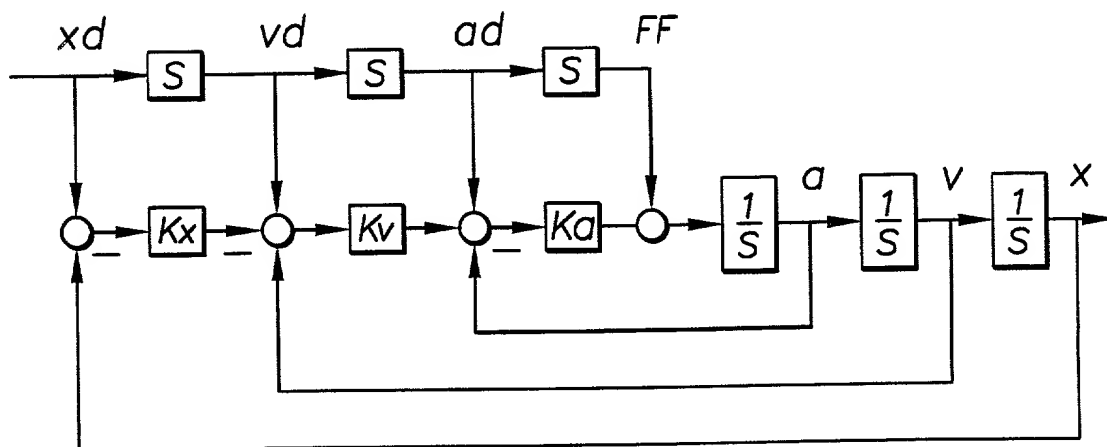


FIG.28



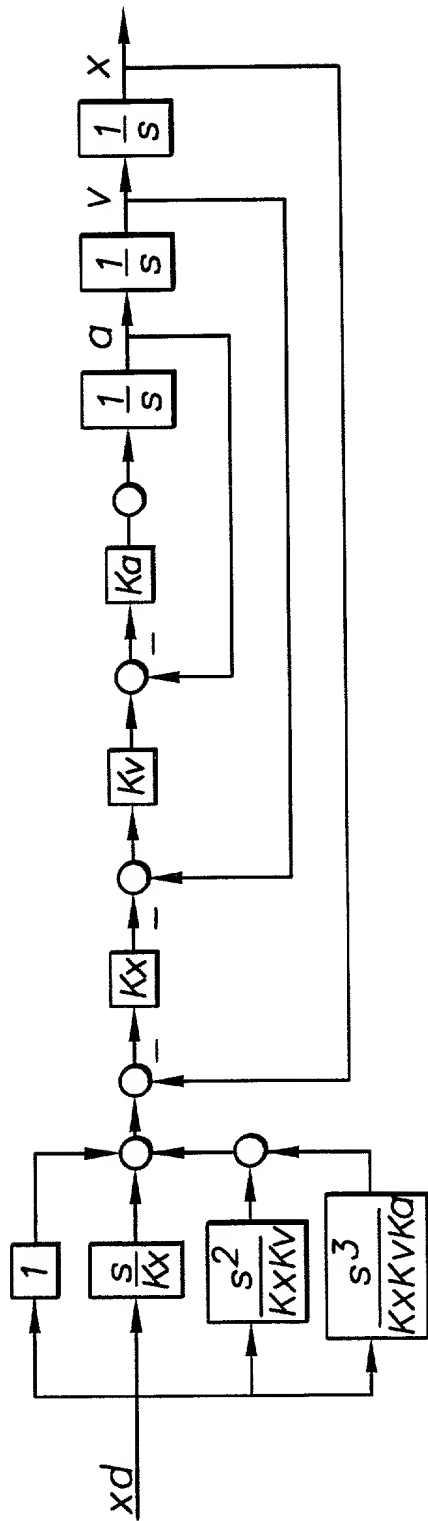


FIG. 29

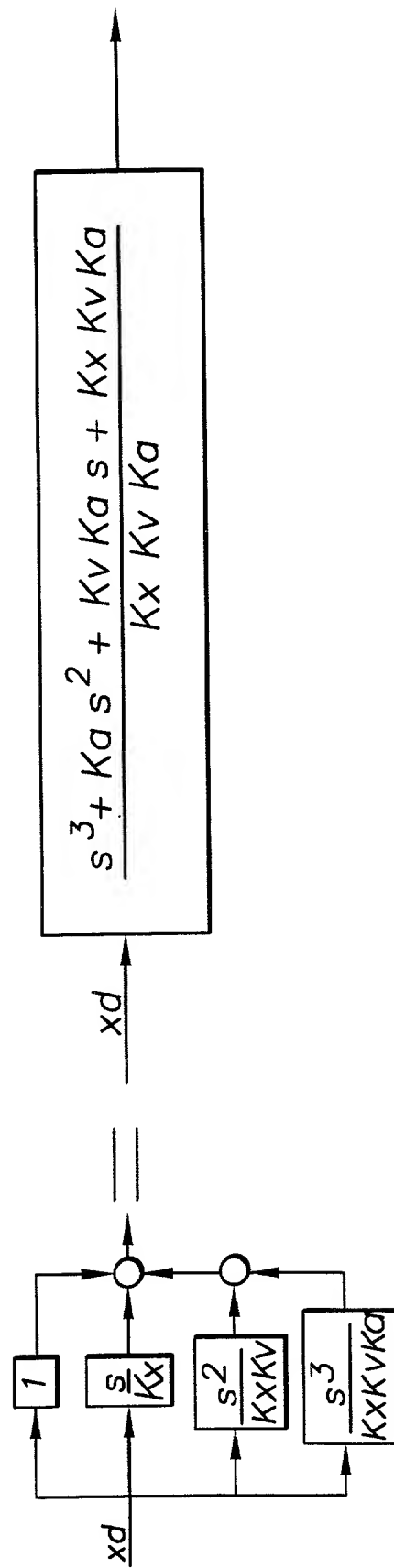


FIG. 30



FIG.31

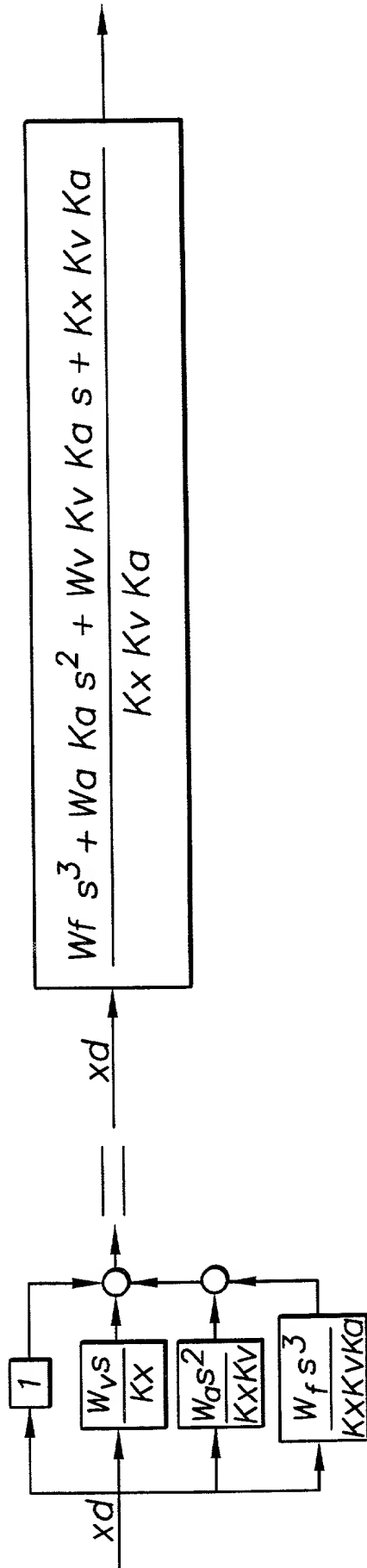


FIG.32

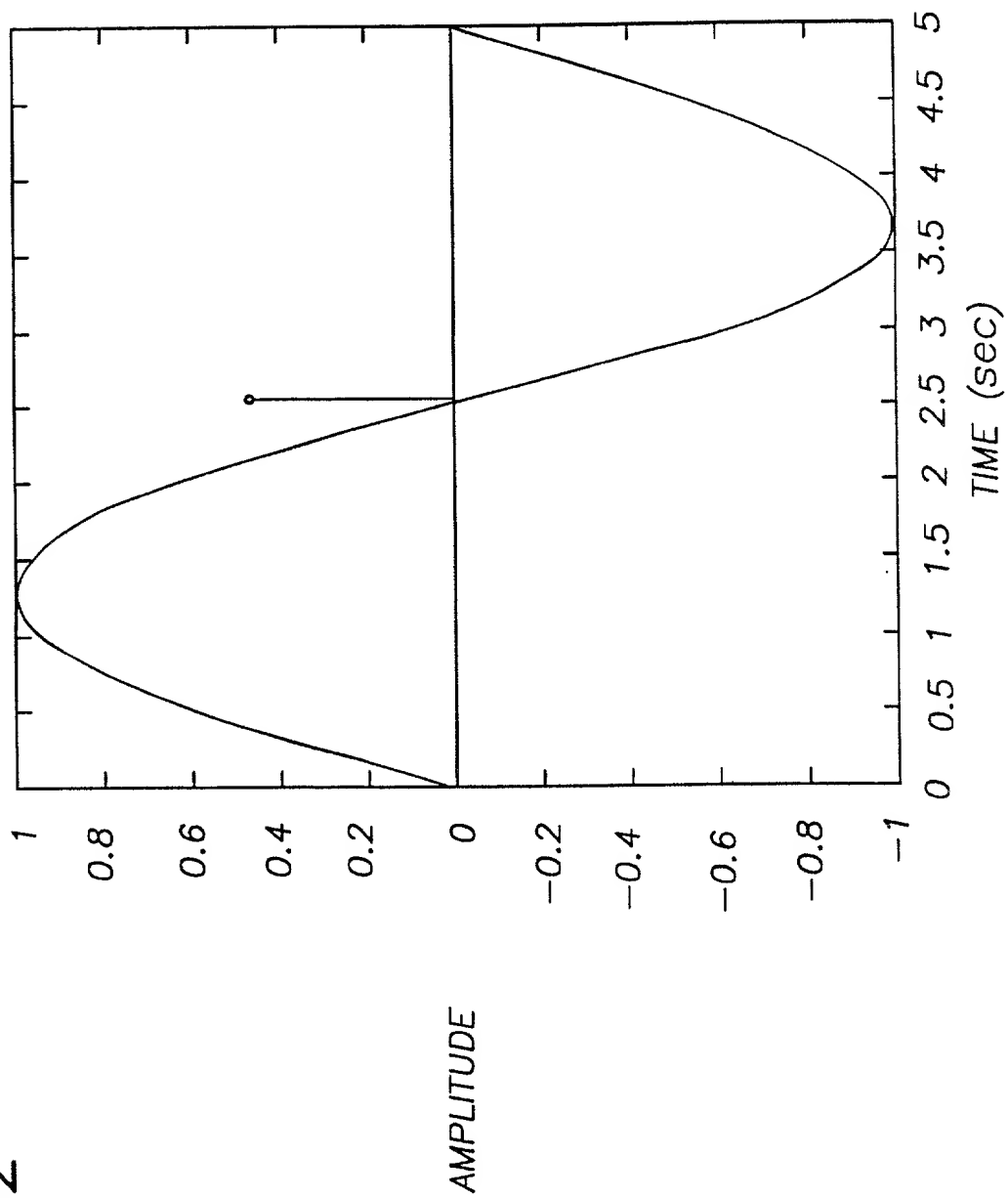


FIG.33

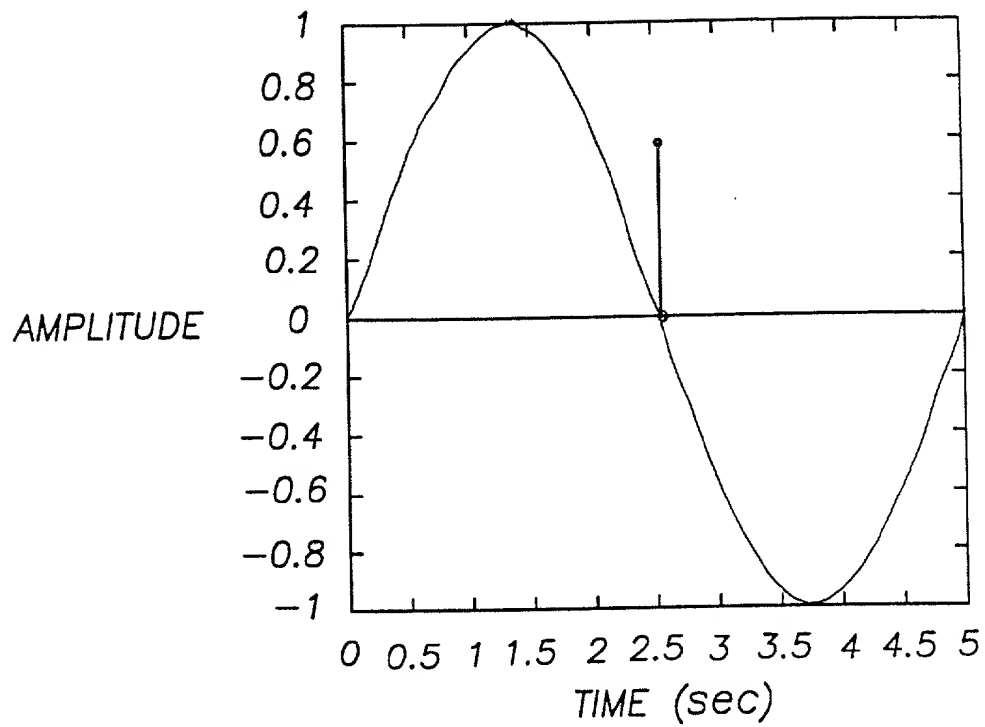


FIG.34

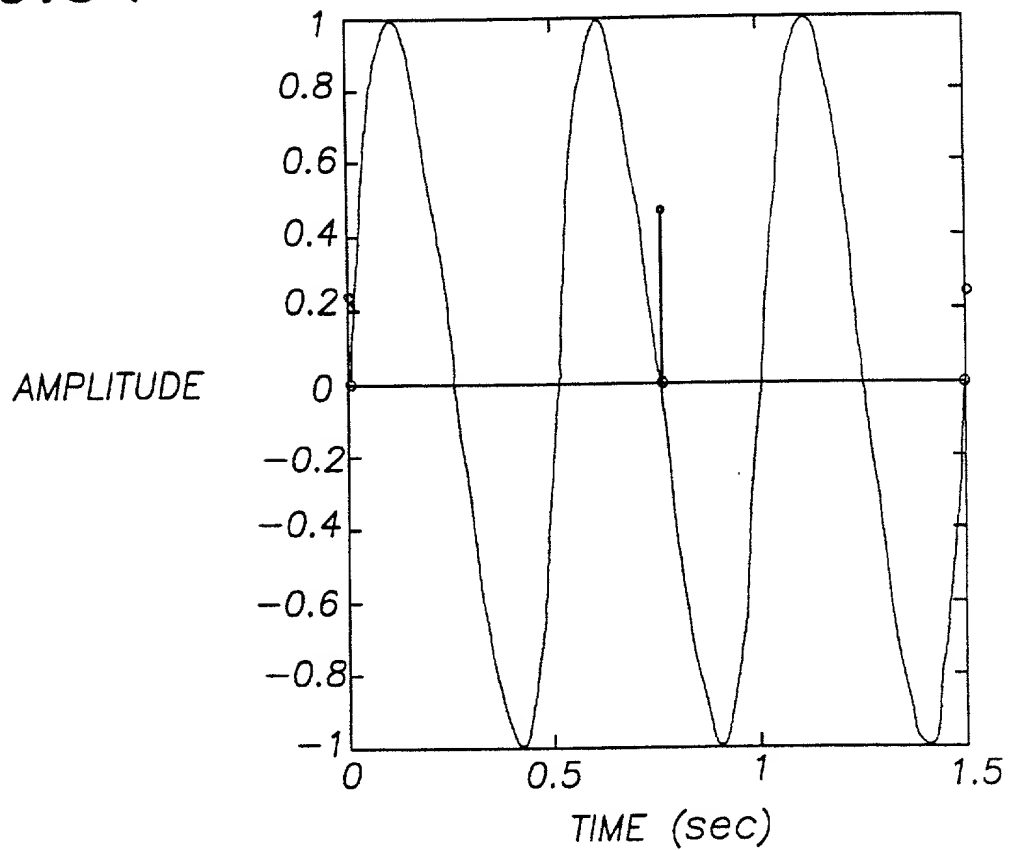


FIG.35

